



Optimal Control and Optimization for Individual-based and Agent-based models. December 1-3, 2009 Tuesday		
8:15-8:40	Breakfast at NIMBioS	
8:45	Introduction to NIMBioS by Lou Gross	
9:00-9:40	Introduction of Participants	
9:40-10:55	Talk: "Individual-based modeling: What is it, and what's	
	optimal (and suboptimal) about it?" by Steve Railsback	
Break		
11:15-12:30 Talk: "The role of individual-based models in controlling infectious disease outbreaks." by Stephen Eubank		
Lunch at NIMBioS		
1:30-2:30	Talk: "Features of Optimal Control" by Suzanne Lenhart	
2:40-3:40	Talk: "Optimal Management of Renewable Resources" by Suresh Sethi	
Break		
4:00-4:30	Talk: "IBMs for infectious diseases spreading in cities. Optimization aspects" by V.D. Perminov	

4:40-6:00 Reception at NIMBioS

6:30 Dinner

Wednesday

- 8:15-8:40 Breakfast at NIMBioS
- 8:45-9:45 Talk: "Polynomial Dynamical Systems: A framework for Agent-based modeling, simulation, and control." by Abdul Salam Jarrah
- 9:55-10:25 Talk: "Adapting Optimal Control from a Simple Aggregated Model to an Individual-based Model." by Paula Federico

Break

10:45-12:00 Discussion Groups

Lunch at NIMBioS

1:00-2:00	Sharing results from groups
2:10-3:10	Talk: "On Agent-based and Differential Equation Models."
	by Charles Macal
Break	
3:30-4:30	Talk: "Agent-Based Modeling in Computer Graphics and Games."
	by Brian Mac Namee
4:40-5:40	Talk: "Modeling, Analysis, and Control of Distributed Systems."
	by Abdelhaq El Jai given through computer-connection
6:30: Din	ner

Thursday

- 8:15-8:40 Breakfast at NIMBioS
- 8:45-9:45 Talk: "Control of agent models through reduced order approximations." by Ben Fitzpatrick

9:55-10:55 Talk: by *Michael North*

Break

11:15-12:15 Discussion groups

Lunch at NIMBioS

1:15-3:00 Discuss future directions with all participants

11/30/2009 10:00:00 AM